

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630157

Luminaire Tested: GWS-SA1D-727-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-727-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3819.3 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

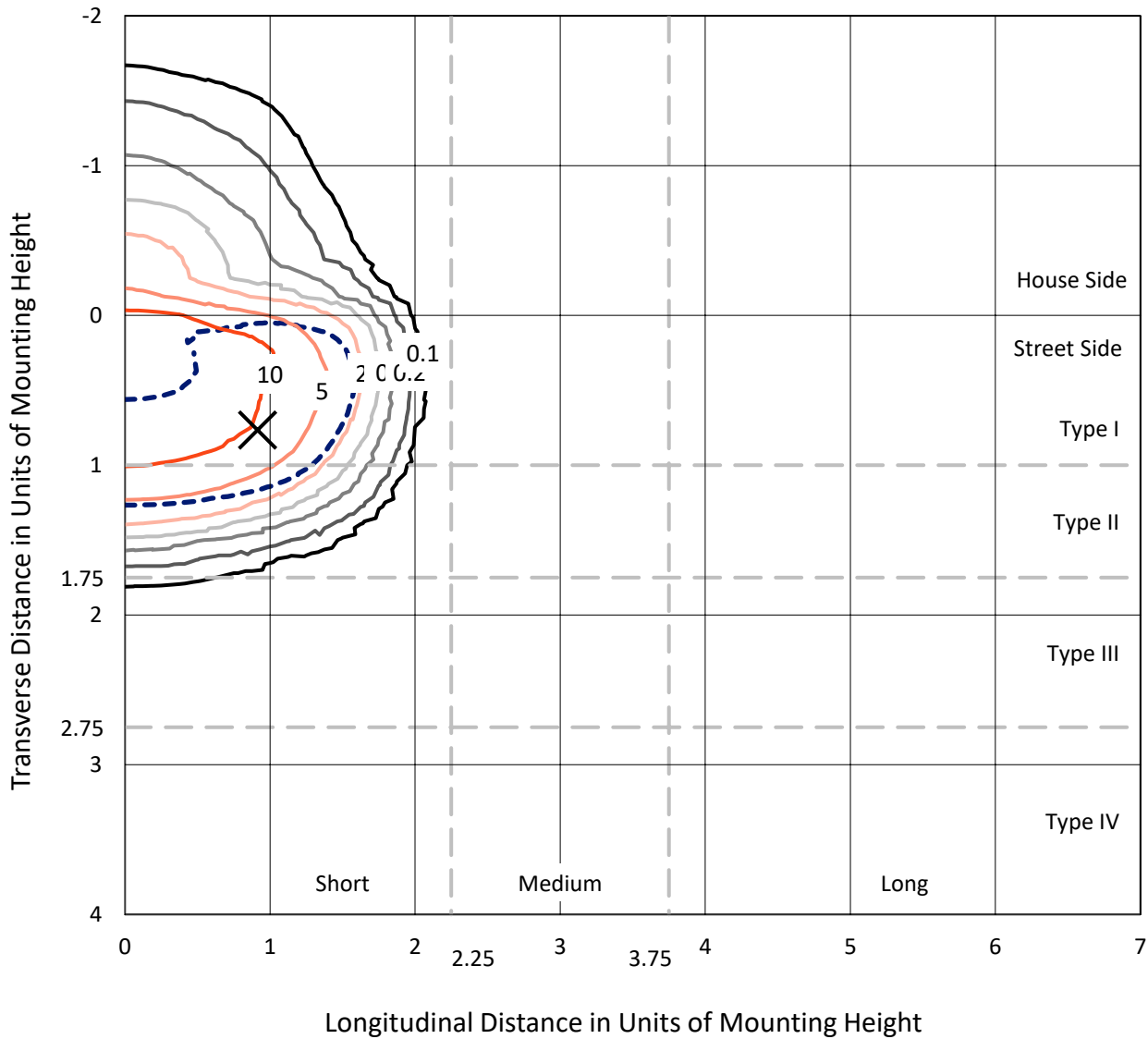
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

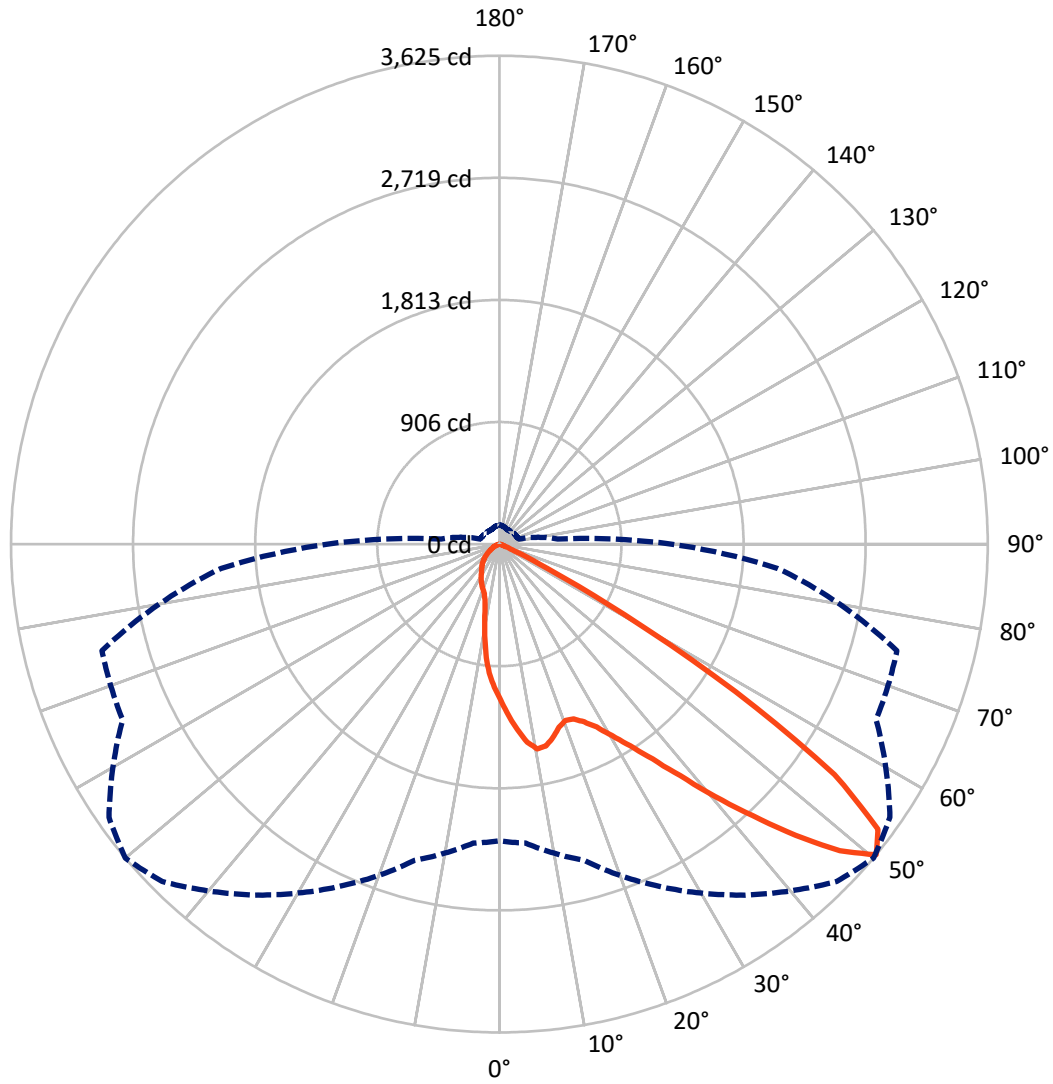
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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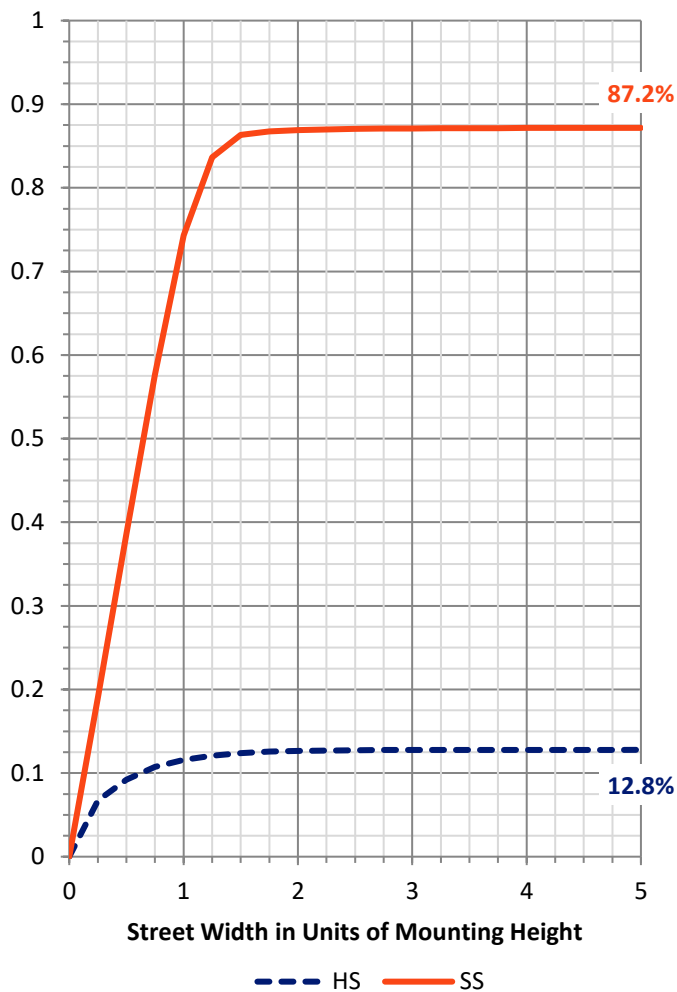
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	490.7	0.0	490.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3328.6	0.0	3328.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	3819.3	0.0	3819.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	2.8
10°-20°	276.9	7.3
20°-30°	457.1	12.0
30°-40°	754.2	19.7
40°-50°	1193.4	31.2
50°-60°	903.5	23.7
60°-70°	113.1	3.0
70°-80°	12.8	0.3
80°-90°	1.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3819.3	100.0
0°-180°	3819.3	100.0

Coefficient of Utilization



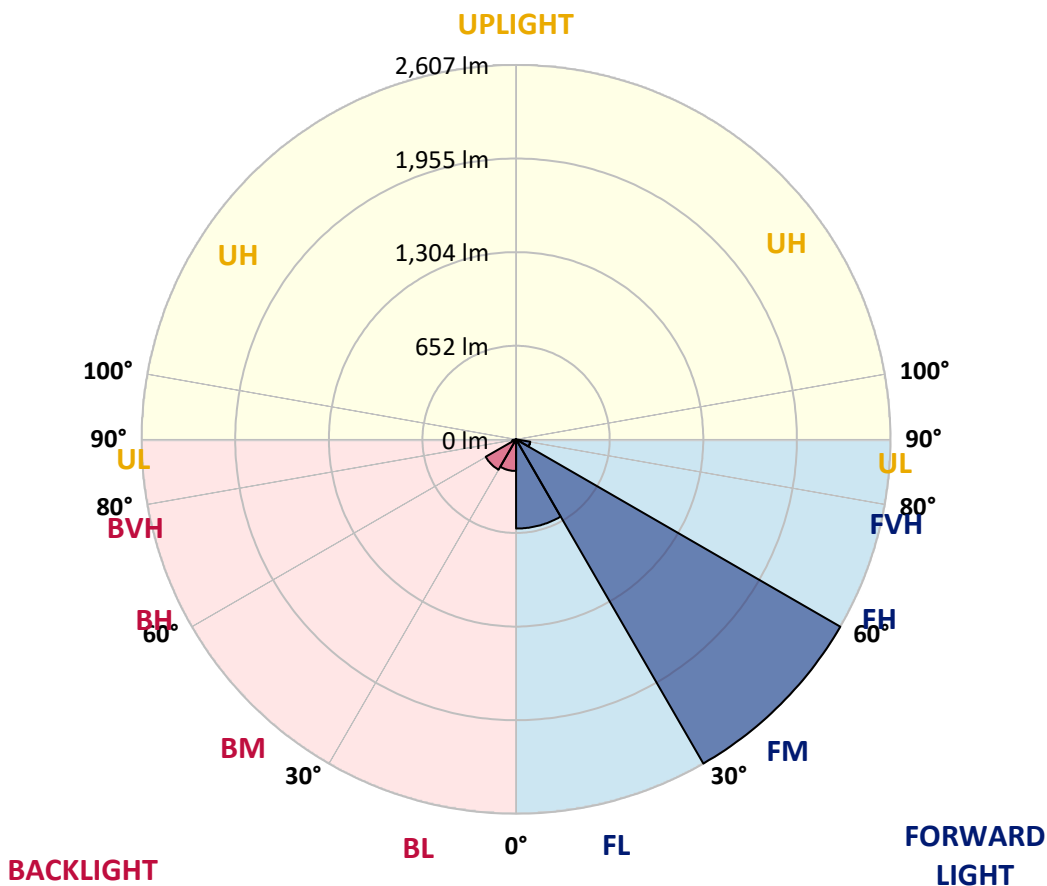
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.1	16.3			
FM (30°-60°)	2607.1	68.3			
FH (60°-80°)	100.0	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	220.3	5.8	B1/500		
BM (30°-60°)	244.0	6.4	B1/1000		
BH (60°-80°)	25.9	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1
2.5°	1318.5	1329.0	1326.1	1312.3	1297.4	1286.9	1270.5	1265.4	1228.3	1202.5	1175.3
5°	1477.7	1481.0	1477.4	1460.6	1434.5	1409.4	1382.5	1366.8	1304.7	1248.7	1191.6
7.5°	1515.9	1511.9	1518.8	1527.2	1523.5	1512.6	1484.3	1467.2	1393.0	1301.8	1215.3
10°	1396.7	1387.6	1413.4	1456.6	1502.1	1553.3	1546.1	1547.5	1479.2	1368.7	1246.2
12.5°	1238.5	1234.9	1254.2	1304.3	1393.4	1509.7	1537.7	1584.6	1558.1	1441.0	1281.4
15°	1169.1	1170.9	1182.5	1214.2	1278.1	1422.8	1490.1	1574.8	1628.6	1511.2	1320.3
17.5°	1179.6	1186.2	1185.8	1196.4	1235.3	1351.2	1429.7	1543.9	1683.1	1591.9	1365.0
20°	1251.2	1257.8	1248.0	1240.0	1253.1	1333.0	1398.1	1512.6	1719.8	1673.3	1412.3
22.5°	1358.5	1366.1	1342.9	1320.0	1311.6	1362.9	1410.1	1499.9	1747.8	1747.8	1454.5
25°	1488.3	1498.8	1462.8	1422.1	1398.8	1425.7	1461.4	1528.6	1776.5	1814.7	1483.2
27.5°	1633.3	1633.7	1602.8	1557.0	1513.3	1516.6	1538.1	1593.3	1808.2	1886.7	1505.7
30°	1796.5	1797.6	1756.5	1701.7	1646.8	1631.9	1650.0	1691.8	1874.0	1977.2	1537.0
32.5°	2007.4	2012.5	1953.6	1872.9	1801.6	1773.6	1784.2	1828.2	1978.7	2090.6	1583.9
35°	2292.4	2297.8	2211.0	2104.4	1991.0	1948.9	1959.4	2003.7	2130.2	2251.7	1658.8
37.5°	2573.7	2581.0	2493.0	2393.8	2238.2	2168.4	2179.3	2221.5	2357.8	2474.1	1778.7
40°	2768.2	2778.0	2750.8	2683.9	2539.6	2448.0	2461.1	2476.3	2608.3	2740.2	1934.3
42.5°	2870.7	2884.6	2896.2	2930.4	2854.4	2777.7	2755.5	2756.6	2863.1	3011.4	2096.1
45°	2876.9	2890.4	2950.0	3082.0	3139.8	3123.8	3083.4	3056.1	3057.6	3192.1	2197.1
47.5°	2677.0	2702.1	2813.7	3072.1	3289.5	3422.2	3401.9	3337.1	3139.4	3204.1	2186.2
50°	2203.3	2228.0	2430.9	2802.8	3180.5	3541.4	3625.4	3538.5	3086.0	3054.7	2073.9
52.5°	1600.2	1602.8	1734.4	2168.8	2738.4	3321.5	3519.3	3510.9	3004.5	2873.7	1920.5
55°	760.1	751.0	899.0	1224.0	1894.0	2686.4	3019.8	3114.3	2888.9	2742.8	1801.6
57.5°	221.4	225.7	291.5	477.7	947.3	1716.9	2068.1	2244.0	2371.3	2254.9	1397.4
60°	99.2	99.6	110.9	145.4	315.5	798.7	1069.1	1286.9	1417.7	1313.8	693.2
62.5°	72.0	72.3	76.7	82.2	107.2	270.5	401.0	534.4	544.2	356.3	175.6
65°	60.0	60.0	60.7	60.7	64.3	96.7	121.8	157.0	132.3	98.2	68.7
67.5°	48.3	48.7	49.4	49.4	48.3	48.3	52.3	57.4	61.4	76.0	63.3
70°	37.8	37.4	37.4	37.8	36.7	31.3	33.8	38.5	42.2	59.3	54.9
72.5°	29.4	29.8	29.4	28.0	25.4	18.5	20.0	25.1	26.9	37.1	37.1
75°	22.2	22.5	21.1	16.0	10.5	5.8	7.6	12.4	15.6	18.2	13.5
77.5°	2.9	2.9	2.2	2.2	1.8	2.2	2.2	2.9	4.4	4.4	3.3
80°	0.4	0.4	0.4	0.7	1.1	1.5	1.5	1.5	1.5	1.8	1.8
82.5°	0.4	0.4	0.4	0.4	1.1	1.1	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.4	0.7	1.1	1.1	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.4	0.7	1.1	1.1	1.1	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1	1157.1
2.5°	1158.9	1137.8	1112.4	1094.9	1070.2	1053.9	1030.6	1015.0	1001.5	991.0	996.8
5°	1159.3	1125.8	1073.8	1029.5	981.2	936.8	889.2	851.7	817.9	802.7	811.0
7.5°	1166.5	1118.6	1039.0	960.1	867.4	775.8	690.0	620.2	585.6	569.3	574.4
10°	1180.7	1115.3	1000.1	869.2	718.7	593.6	510.4	463.1	443.9	433.7	435.5
12.5°	1193.8	1113.1	949.5	749.6	567.1	460.6	417.3	410.8	414.8	415.1	414.8
15°	1211.6	1109.1	887.0	626.7	453.7	398.1	399.1	408.6	418.1	421.0	420.2
17.5°	1230.5	1102.9	806.3	508.9	385.0	379.9	392.6	405.3	414.8	416.2	416.6
20°	1250.2	1090.2	714.3	415.5	353.0	366.1	380.2	389.7	396.6	398.8	399.5
22.5°	1259.2	1063.3	608.2	348.6	331.5	349.0	359.5	371.9	374.1	366.1	367.5
25°	1254.5	1017.9	504.6	303.5	310.1	327.5	343.2	337.0	327.9	322.1	323.9
27.5°	1239.6	957.5	403.1	270.5	287.2	309.4	311.2	304.3	302.8	298.1	299.5
30°	1223.6	888.1	324.3	243.9	263.9	287.2	281.7	284.3	284.6	279.2	281.0
32.5°	1213.8	815.4	258.1	226.1	249.0	253.4	264.3	269.4	269.7	257.0	259.2
35°	1217.1	743.8	218.5	211.6	235.2	234.1	249.4	252.3	231.2	213.8	215.6
37.5°	1243.6	677.6	195.9	200.3	211.2	219.6	231.2	211.9	207.2	199.2	200.3
40°	1293.1	621.3	182.5	193.4	194.8	208.3	190.5	193.0	193.4	188.3	189.4
42.5°	1350.9	574.4	174.5	189.4	185.8	187.9	170.1	175.2	180.7	178.5	178.9
45°	1379.9	528.6	167.6	175.6	176.7	156.0	152.0	157.4	164.3	165.4	165.8
47.5°	1354.1	484.9	160.3	155.6	162.9	142.1	137.4	139.2	147.2	151.6	152.3
50°	1275.2	434.8	149.4	137.8	133.8	127.6	123.2	123.6	132.7	140.3	141.8
52.5°	1164.4	382.4	131.6	116.7	107.6	112.3	113.4	111.2	119.6	127.2	128.7
55°	1056.8	317.0	104.3	94.9	86.5	96.7	99.6	96.7	99.2	104.3	104.7
57.5°	744.1	179.2	80.0	78.5	71.6	82.9	87.6	83.2	78.9	82.2	82.9
60°	345.0	93.8	61.4	61.4	59.6	71.3	79.2	73.1	64.7	66.2	67.3
62.5°	108.0	59.3	45.1	42.5	48.7	60.7	67.3	61.1	51.3	51.3	52.7
65°	61.1	50.9	35.6	32.7	39.6	48.7	52.7	46.2	37.4	36.7	36.7
67.5°	56.7	48.3	31.6	26.5	28.0	31.3	32.7	28.4	25.8	25.4	25.8
70°	46.9	40.4	25.4	18.2	17.1	16.7	17.4	16.4	15.6	16.0	17.1
72.5°	29.1	24.4	16.0	10.9	9.5	9.1	9.1	9.1	8.7	8.7	8.7
75°	10.5	9.1	7.3	5.5	4.7	4.4	4.4	4.7	4.4	4.0	3.6
77.5°	3.3	2.9	2.9	2.9	2.5	2.2	1.8	1.8	1.5	1.1	1.1
80°	1.8	1.8	1.8	1.8	1.5	1.5	1.1	0.7	0.4	0.4	0.0
82.5°	1.8	1.8	1.8	1.5	1.5	1.5	1.1	0.7	0.4	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.1	0.7	0.4	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.1	0.7	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)